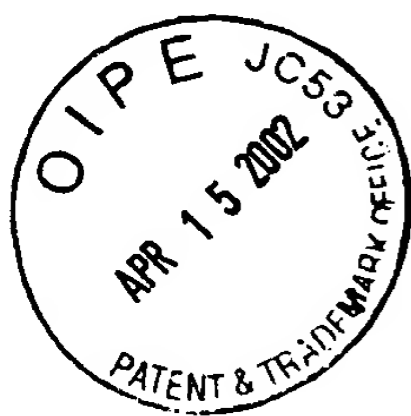


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SEQUENCE LISTING



<110> Sette, Alessandro
Gaeta, Federico
Grey, Howard M.
Sidney, John
Alexander, Jeffery L.
Epimmune Inc.

<120> Induction of Immune Response Against
Desired Determinants

<130> 018623-006250US

<140> US 09/707,738

<141> 2000-11-06

<150> US 08/121,101

<151> 1993-09-14

<150> US 08/305,871

<151> 1994-09-14

<150> US 08/485,218

<151> 1995-06-07

<150> US 60/010,510

<151> 1996-01-24

<150> US 08/788,822

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<150> US 09/310,462

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1 5 10 15
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1 5 10 15

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<400> 10
Tyr Asn Thr Asp Gly Ser Thr Asp Tyr Gly Ile Leu Gln Ile Asn Ser
1 5 10 15
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<210> 11
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Trp at position X6

<400> 11
Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala Ala Ala
1 5 10

<210> 12
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Asn at position X6

<400> 12
Ala Lys Phe Val Ala Ala Asn Thr Leu Lys Ala Ala Ala
1 5 10

<210> 13
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Tyr at position X6

<400> 13
Ala Lys Phe Val Ala Ala Tyr Thr Leu Lys Ala Ala Ala
1 5 10

<210> 14
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and Lys at position X6

<400> 14
Ala Lys Phe Val Ala Ala Lys Thr Leu Lys Ala Ala Ala
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965.10 with substitutions L-Ala for D-Ala, Phe at
position X2 and His at position X6

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 965.10 with substitutions L-Ala for D-Ala, Phe at
 position X2 and Ala at position X6

<400> 16
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 1 5 10

<210> 17
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 region of circumsporozoite protein (CSP) of
 Plasmodium yoelii (PyB)

<400> 17
 Gly Gln Gly Pro Gly Ala Pro Gln Gly Pro Gly Ala Pro Gln Gly Pro
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 Gly Ala Pro Gln Gly Pro Gly Ala Pro
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<210> 18
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<220>
 <223> central immunodominant circumsporozoite repeat
 region of circumsporozoite protein (CSP) of
 Plasmodium falciparum (PfB)

<400> 18
 Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro
 1 5 10 15

<210> 19
 <211> 6
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 PyB CSP

<400> 19
 Gln Gly Pro Gly Ala Pro
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<220>
 <223> universal T-helper epitope from tetanus toxin p30

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Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
1 5 10 15
Ala Ser His Leu Glu
20

<210> 21
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<212> PRT
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<220>
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<400> 21
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1 5 10

<210> 22
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<220>
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<222> (3)...(3)
<223> Xaa = cyclohexylalanine

<221> MOD_RES
<222> (13)...(13)
<223> Xaa = alaninamide

<400> 22
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1 5 10

<210> 23
<211> 13
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<213> Artificial Sequence

<220>
<223> peptide binds more than one DR allele

<221> MOD_RES
<222> (1)...(1)
<223> Xaa = any D- or L-amino acid

<221> MOD_RES
<222> (2)...(2)
<223> Xaa = Ala or Lys

<221> MOD_RES
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<223> Xaa = cyclohexylalanine, Tyr or Phe

<221> MOD_RES
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<223> Xaa = Ala, Ile, Ser or Val

<221> MOD_RES
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<223> Xaa = Ala, Ser or Val

<221> MOD_RES
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<223> Xaa = any D- or L-amino acid

<400> 23
Xaa Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa
1 5 10

<210> 24
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> peptide binds more than one DR allele

b2
<221> MOD_RES
<222> (1)...(1)
<223> Xaa = any D- or L-amino acid

<221> MOD_RES
<222> (2)...(2)
<223> Xaa = Ala or Lys

<221> MOD_RES
<222> (3)...(3)
<223> Xaa = cyclohexylalanine, Tyr or Phe

<221> MOD_RES
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<223> Xaa = Ala, Ile, Ser or Val

<221> MOD_RES
<222> (11)...(13)
<223> Xaa = Ala, Ser or Val

<221> MOD_RES
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<223> Xaa = any D- or L-amino acid

<400> 24
Xaa Xaa Xaa Xaa Xaa Xaa Trp Thr Leu Lys Xaa Xaa Xaa Xaa
1 5 10

<210> 25
<211> 15
<212> PRT
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<220>
<223> peptide binds more than one DR allele

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<223> Xaa = Ala, Ser or Val

<221> MOD_RES
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<223> Xaa = any D- or L-amino acid

<400> 25
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1 5 10 15
